

Amendments to the Claims

This listing of claims will replace all prior versions, and listings, of claims in the application.

Listing of Claims:

1. (currently amended) A battery having an apparatus for monitoring the battery, the battery comprising:

one or more cells that provide power to at least one output; and

a monitor that is adapted to monitor and store performance information relating to the operation of the one or more cells, and which is adapted to communicate with an external system, and that is adapted to receive a monitor signal from the external system, wherein the monitor is coupled to the one or more cells and is adapted to receive power for the monitor from the external system and wherein the monitor ~~is adapted to communicate~~ with the external system by ~~interrupting~~ actively suspending current of received power provided to the monitor by the external system.

2. (original) The battery according to claim 1 in combination with an Uninterruptible Power Supply (UPS) system.

3. (original) The battery according to claim 1, wherein the monitor is adapted to perform a reset if the received power is insufficient.

4. (original) The battery according to claim 1, wherein the monitor includes an associated memory in which the monitor is adapted to store the performance information.

5. (original) The battery according to claim 4, wherein the memory is a nonvolatile-type memory.

6. (original) The battery according to claim 5, wherein the nonvolatile-type memory is an EEPROM.

7. (canceled)

8. (original) The battery according to claim 1, wherein the monitor is adapted to receive a monitor signal from the external system and wherein the monitor is adapted to receive power from the external system via the monitor signal.

9. (previously presented) The battery according to claim 1, wherein the monitor is adapted to communicate in an asynchronous manner with the external system.

10. (original) The battery according to claim 9, wherein a start of communication with the battery is initiated by the external system by interrupting the current of the power supply.

11. (original) The battery according to claim 10, wherein the monitor is adapted to detect the start of communication, and is adapted to receive, after the start of communications is detected, a request message from the external system.

12. (original) The battery according to claim 11, wherein the monitor is adapted to transmit a response message in response to the received request message.

13. (original) The battery according to claim 12, wherein the monitor comprises an LC-type oscillator that provides clocking for the monitor.

14. (previously presented) The battery according to claim 53, wherein the manufacturing information includes a model type of the battery, and wherein the monitor is adapted to communicate the model type to the external system.

15. (previously presented) The battery according to claim 53, wherein the manufacturing information includes a serial number of the battery, and wherein the monitor is adapted to communicate the serial number to the external system.

16. (previously presented) The battery according to claim 53, wherein the manufacturing information includes rating information of the battery, and wherein the monitor is adapted to communicate the rating information to the external system.

17. (previously presented) The battery according to claim 53, wherein the manufacturing information includes a manufacturing date of the battery, and wherein the monitor is adapted to communicate the manufacturing date to the external system.

18. (previously presented) The battery according to claim 53, wherein the manufacturing information includes one or more battery constants, and wherein the monitor is adapted to communicate the one or more battery constants to the external system.

19. (previously presented) The battery according to claim 53, wherein the manufacturing information includes one or more battery constants that relate to the battery's expected performance, and wherein the monitor is adapted to communicate the one or more battery constants to the external system.

20. (previously presented) The battery according to claim 53, wherein the battery further comprises a temperature sensor, and wherein the manufacturing information includes one or more constants relating to the temperature sensor, and wherein the monitor is adapted to communicate the one or more constants to the external system.

21. (previously presented) The battery according to claim 53, wherein the battery further comprises a resistor used to detect current provided by the battery, and wherein the manufacturing information includes parameters related to the resistor, and wherein the monitor is adapted to communicate the parameters related to the resistor to the external system.

22. (original) The battery according to claim 1, wherein the monitor is adapted to store performance information indicating performance of the battery.

23. (original) The battery according to claim 1, wherein the monitor is adapted to store the performance information periodically.

24. (original) The battery according to claim 1, wherein the performance information includes a count of the number of discharges of the battery, and wherein the monitor is adapted to communicate the number of discharges of the battery to the external system.

25. (original) The battery according to claim 1, wherein the performance information includes a software identifier of the monitor, and wherein the monitor is adapted to communicate the software identifier of the monitor to the external system.

26. (original) The battery according to claim 1, wherein the performance information includes a temperature of the battery, and wherein the monitor is adapted to communicate the temperature of the battery to the external system.

27. (original) The battery according to claim 1, wherein the performance information includes an accumulated time that the battery is in a charge state, and wherein the monitor is adapted to communicate the accumulated time to the external system.

28. (original) The battery according to claim 1, wherein the performance information includes an accumulated time that the battery is in a floating state, and wherein the monitor is adapted to communicate the accumulated time to the external system.

29. (original) The battery according to claim 1, wherein the performance information includes an accumulated time the battery is in a discharging state, and wherein the monitor is adapted to communicate the accumulated time to the external system.

30. (original) The battery according to claim 1, wherein the performance information includes a maximum temperature experienced by the battery, and wherein the monitor is adapted to communicate the maximum temperature to the external system.

31-51. (canceled)

52. (previously presented) The battery according to claim 12, wherein the monitor comprises a crystal oscillator that provides clocking for the monitor.

53. (previously presented) The battery according to claim 1, wherein the monitor is adapted to store manufacturing information relating to the battery.